

CLAIMS:

1. A curable fluoropolyether rubber composition comprising

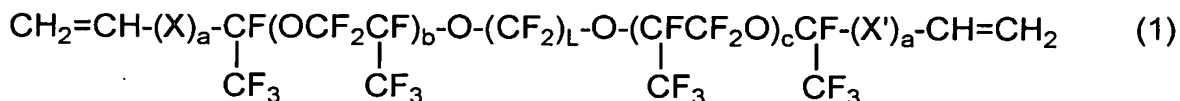
(A) a straight-chain fluoropolyether compound having at least two alkenyl groups in a molecule and a perfluoropolyether structure in the backbone,

(B) an organosilicon compound having at least two silicon atom-bonded hydrogen atoms in a molecule,

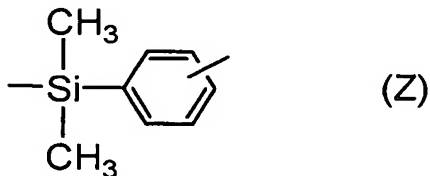
(C) a perfluoroparaffin or perfluoroparaffin derivative in powder form which contains at least 80% by weight of a volatile component that volatilizes off when held in a drier at 200°C for 4 hours, and has a melting point of at least 50°C, and

(D) a hydrosilylation catalyst.

2. The composition of claim 1 wherein component (A) is a straight-chain fluoropolyether compound of the following general formula (1):

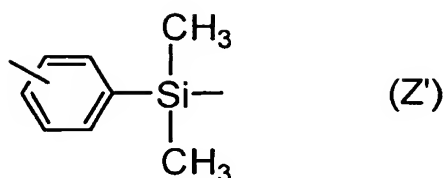


wherein X is -CH₂-, -CH₂O-, -CH₂OCH₂- or -Y-NR¹-CO- wherein Y is -CH₂- or a dimethylphenylsilylene group of the following structural formula (Z):



(o, m or p-position) and R¹ is hydrogen, methyl, phenyl or allyl,

X' is -CH₂-, -OCH₂-, -CH₂OCH₂- or -CO-NR¹-Y'- wherein Y' is -CH₂- or a dimethylphenylsilylene group of the following structural formula (Z'):



(o, m or p-position) and R^1 is as defined above,

"a" is independently 0 or 1, L is an integer of 2 to 6, and b and c each are an integer of 0 to 200.

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3. The composition of claim 1 wherein the perfluoroparaffin or perfluoroparaffin derivative (C) has the general formula (7) or (8):



15 wherein R is hydrogen, halogen exclusive of fluorine, or a hydrocarbon group of 1 to 30 carbon atoms, x is a number in the range of 10 to 40, y is a number in the range of 2 to 40, each of x and y may be a single number or have a distribution in the range.

20 4. A rubber article comprising the curable fluoropolyether rubber composition of claim 1 in the cured state.

25 5. The rubber article of claim 4 for use in automobiles, chemical plants, ink jet printers, semiconductor manufacturing lines, analytical or scientific instruments, medical equipment, aircraft or fuel cells.

6. The rubber article of claim 4 which is a diaphragm, valve, O-ring, oil seal, gasket, packing, joint or face seal.

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